

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:	§	
Dr. Hans-Joachim Muschenborn	§	Docket No.: 12964.20
	§	
Serial No.: Unknown	§	Group Art Unit: Unknown
	§	
Filed: Herewith	§	Examiner: Unknown
	§	
For: PROTECTION OF SECURITY CRITICAL	§	
DATA IN NETWORKS	§	

PRELIMINARY AMENDMENT

Commissioner For Patents
Washington, DC 20231

Sir:

Prior to the initial examination of the above application please enter the following:

IN THE SPECIFICATION

Please amend page 1 to read:

This application claims priority under German Patent application number 199 61 399.0 filed on December 20, 1999.

In the claims:

Please amend the following claims:

4. (Amended) Network system according to [one of] claim[s] 1[to 3], wherein the central unit ZE stores authorization data AD and wherein at least one peripheral thread after connecting to the central process Z on ZE transmits access data to Z, and wherein Z checks the access rights of the peripheral process by checking said access data against said authentication data AD, and wherein Z terminates the connection to said peripheral process if the result of said check of said access rights is negative.

5. (Amended) Network system according to [one of] claims 1[to 3], wherein at least one Unit AE directly or indirectly physically connected with central unit ZE stores authorization data AD and wherein AE executes at least one authorization thread AS able to build-up or accept a standing logical connection to or from Z, and wherein at least one peripheral thread after build-up of the connection to central process Z sends Z access data, and wherein Z receives said access data and forwards said access

data to AS, and wherein AS receives said access data, checks the access rights of said peripheral process by checking said access data against said authorization data AD and transmits the result of said check of said access rights to Z, and wherein Z terminates the connection to said peripheral process if the result of said check of said access rights is negative.

8. (Amended) Network system according to [one of the] claim[s] 6 [or 7] wherein at least one peripheral thread transmits to the logon process additional access data, and wherein the logon process checks the access rights of said peripheral process by checking said access data against predefined authorization data, and wherein said logon process triggers at least one central process to open a new connection endpoint only if said authorization check returns a positive result.

10. (Amended) Network system according to [one of the] claim[s] 6 [to 9] wherein at least one peripheral thread does not know the local identification of at least one temporarily opened connection endpoint by at least one central process, and wherein said peripheral thread receives said local identification from at least one logon process.

13. (Amended) Network system according to claim[s] 9 [and 10] wherein at least one authorization service generates at least one local identification of at least one connection endpoint to be provided by at least one of the central processes and transmits said generated local identification during connection build-up via at least one logon process to at least one peripheral thread and to at least one central process providing at least one temporarily open connection endpoint with said generated local identification.

14. (Amended) Network system according to [one of] claim[s] 9 [to 13] wherein at least one local identification of at least one temporarily opened connection endpoint of at least one central process is generated randomly or pseudo-randomly.

15. (Amended) Network system according to [one of] claim[s] 9 [to 14] wherein at least one local identification of at least one temporarily opened connection endpoint of at least one central process is transmitted in at least one encrypted message.

16. (Amended) Network system according to [one of the] claim[s] [6 to 15] wherein at least one peripheral thread does not know the physical address of the network interface of at least one target central unit, and wherein said peripheral thread receives from at least one logon process the physical address of at least one network interface of at least one central unit executing at least one central process providing at least one temporarily open connection endpoint.

19. (Amended) Network system according to [one of the] claim[s] 9 [to 16] wherein at least one authorization service selects at least one central process Z1 providing at least one temporarily open connection endpoint and transmits via at least one logon process the physical address of the network interface of the central unit executing Z1 to at least one peripheral thread during connection build-up.

20. (Amended) Network system according to [one of the] claim[s] [16 to 19] wherein at least one central process is selected randomly or pseudo-randomly.

21. (Amended) Network system according to [one of the] claim[s] 16 [to 20] wherein the physical address of at least one network interface of at least one central unit running at least one central process providing at least one temporarily open connection endpoint is transmitted in encrypted form.

22. (Amended) Network system according to [one of the previous claims] claim 1 wherein at least one service builds-up or accepts at least one standing logical connection to or from at least two central processes, and wherein said service provides on at least two of its connections different protocols.

23. (Amended) Network system according to [one of the previous claims] claim 1 wherein at least one of the protocols of at least one service can be activated during operation.

24. (Amended) Network system according to [one of the previous claims] claim 1 wherein at least one of the protocols of at least one service can be deactivated during operation.

25. (Amended) Network system according to [one of the] claim[s] 23 [or 24] wherein the activation or deactivation of at least one protocol of at least one service is controlled by at least one function of at least one protocol of said service.

26. (Amended) Network system according to [one of the previous claims] claim 1 wherein at least one function of at least one protocol of at least one service can be activated during operation.

27. (Amended) Network system according to [one of the previous claims] claim 1 wherein at least one function of at least one protocol of at least one service can be deactivated during operation.

28. (Amended) Network system according to [one of the] claim[s] 26 [or 27] wherein the activation or deactivation of at least one function of at least one protocol of at least one service is controlled by at least one function of at least one protocol of said service.

29. (Amended) Network system according to [one of the previous claims] claim 1 wherein at least one protocol of at least one service can be loaded into the addressable memory space of said service during operation.

30. (Amended) Network system according to [one of the previous claims] claim 1 wherein at least one protocol of at least one service can be removed from the addressable memory space of said service during operation, such that all functions of said removed protocol can only be called again after said protocol has been loaded again into the addressable memory space of said service.

31. (Amended) Network system according to [one of the] claim[s] 29 [or 30] wherein the loading or removal of at least one protocol of at least one service is controlled by at least one function of at least one protocol of said service.

32. (Amended) Network system according to [one of the previous claims] claim 1 wherein at least one function of at least one protocol of at least one service can be loaded into the addressable memory space of said service during operation.

33. (Amended) Network system according to [one of the previous claims] claim 1 wherein at least one function of at least one protocol of at least one service can be removed from the addressable memory space of said service during operation, such that said removed function can only be called again after said removed function has been loaded again into the addressable memory space of said service.

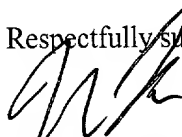
34. (Amended) Network system according to [one of the] claim[s] 32 [or 33] wherein the loading or removal of at least one function of at least one protocol of at least one service is controlled by at least one function of at least one protocol of said service.

REMARKS

Several claims have been amended and replacement sheets with clean claims and page 1 are enclosed.

Should the Examiner have any questions or comments regarding the amendments, the Examiner is invited to telephone the undersigned at the number listed below.

Respectfully submitted,



Warren B. Kice
Registration No. 22,732

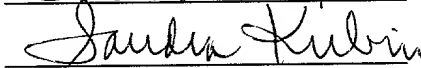
Dated: 12/19/00
HAYNES AND BOONE, L.L.P.
901 Main Street, Suite 3100
Dallas, Texas 75202-3789
Telephone: 214/651-5634
Facsimile: 214/651-5940
File: 12964.20
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on

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SANDRA KUBIN